



# ***DiaLog Elite***

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## ***Pump Cycles Data Logging Option***

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## *What is the Pump Cycles Data Logging Option?*

The Pump Cycles Data Logging Option allows the DiaLog Elite to log the last 750 Start and Stop times for each of up to 3 pumps.

The data can be accessed via a terminal dial-in session, e.g. Hyperterminal or Procomm.

The data is available to be printed during the terminal session in 2 formats:

- In chronological order providing each start time, stop time and run duration for each pump.
- In time-spaced comma separated value (CSV) format.

Using the text capture features of the terminal programs, the user can capture the CSV formatted data and import it directly into Excel or another program.

## **How is the data collected?**


The Elite is shipped from the factory with three (3) channels identified as Pump Cycle channels. These can be changed by the factory over the phone, but cannot be changed by the user.

These three (3) channels should be wired up to signals that indicate when the pump is on or off. The channels are configured as Normally Open – indicating the pump is off, but this setting can be changed by the user.

When the pump runs, the input channel changes from the Open condition to the Closed condition. The Elite logs the start time for that pump. When the pump stops the input channel changes from the Closed condition to the Open condition and the Elite logs that as the stop time for that pump.

The Elite keeps track of the last 750 stop and stop sequences for each pump independently.

# Wiring

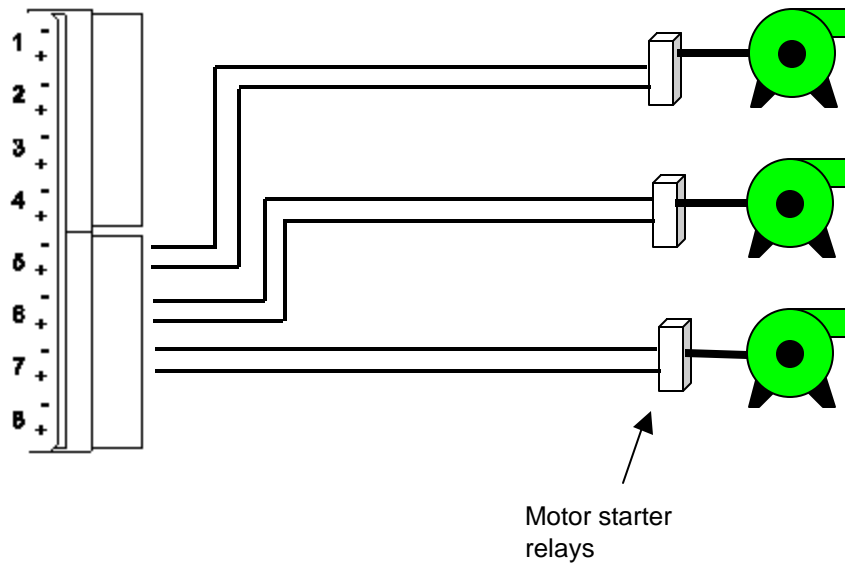
Note 

The documentation that came with the system indicates which channels have been pre-defined a Pump Cycle channels. If you do not know these or need them to be changed, call Antx toll-free at 877-686-2689 and they will be changed over the phone.

Attach the signals that indicate when the pump is running to the dry contact inputs for that channel.

For example,

If the system was shipped indicating that channels 15, 16 and 17 were the Pump Cycle channels then the wiring would be as shown below.





## Accessing the Pump Cycle data

This chapter describes how to access the data once it has been stored in the Elite.

Please read the entire chapter before starting to use the interface.

### Making a connection to the Elite from a PC

Dial into the Elite using a terminal emulation program like Hyperterminal

Refer to the Remote Access Via PC Manual for specific details on making the connection.

### Viewing the data

When the connection has been made the following menu will be displayed.

```
ANTX, Inc.  
Dialog Elite  
Version: 1.7.0  
Date   : 10/01/01  
  
1) Single Status Report  
2) Continuous Status Report  
3) Activate Relays  
4) Dump Event Log  
5) Show Pump Cycles
```

Cmd=>

Enter **5** to view the Pump Cycle data. The following menu will be displayed.

```
Cmd=> 5  
  
Show Pump Cycles  
1) Show Raw Cycles  
2) Show Cycle Report
```

## Raw Data

To view raw start and stop times, press 1 and enter the time range for the data you want printed.

For the Start and End time values you can enter a <cr> to keep the value printed or enter a new value.

```

Selection: 1
Current Time: 16:38:11 09/28/01

Start Date [09/28/01] =
Start Time [15:30:00] = 16:15:00

End Date [09/28/01] =
End Time [16:00:00] = 16:45:00

Pump 1          Pump 2          Pump 3
09/28/01 16:14:50  09/28/01 16:15:00  09/28/01 15:25:32
09/28/01 16:15:49  09/28/01 16:15:59  * * *
run = 0 00:00:59  run = 0 00:00:59  run = 0 01:13:21

09/28/01 16:16:31  09/28/01 16:16:41  * * *
09/28/01 16:17:31  09/28/01 16:17:43  * * *
run = 0 00:00:60  run = 0 00:01:02  run = 0 00:00:00

. . .

09/28/01 16:48:13  09/28/01 16:48:23  * * *
09/28/01 16:49:12  09/28/01 16:49:22  * * *
run = 0 00:00:59  run = 0 00:00:59  run = 0 00:00:00

0 00:14:11          0 00:14:02          0 01:13:21  Total Run
15                  15                  1          Total Starts
0 00:42:41          0 00:00:56          0 01:13:21  Avg Run/Start
    
```

## Time-stamped data

Equally spaced time-stamped data is printed using option 2.

The data are printed in comma-separated value format to make it easy to import into spreadsheets like Excel and other applications.

NOTE 

To capture just the time-stamped data, start the Capture Text option in your terminal emulation program after entering the Interval but before pressing the <cr>

```

Selection:2
Current Time: 16:39:26 09/28/01

Start Date [09/28/01] =
Start Time [16:30:00] =

End Date [09/28/01] =
End Time [16:00:00] = 16:35:00

Interval [60 secs] = 15

Date/Time, Pump 1, Pump 2, Pump 3
09/28/01 16:30:00, 0, 0, 1
09/28/01 16:30:15, 1, 1, 1
09/28/01 16:30:30, 1, 1, 1
09/28/01 16:30:45, 1, 1, 1
09/28/01 16:31:00, 1, 1, 1
09/28/01 16:31:15, 0, 0, 1
09/28/01 16:31:30, 0, 0, 1
09/28/01 16:31:45, 1, 0, 1
09/28/01 16:32:00, 1, 1, 1
09/28/01 16:32:15, 1, 1, 1
09/28/01 16:32:30, 1, 1, 1
09/28/01 16:32:45, 0, 1, 1
09/28/01 16:33:00, 0, 0, 1
09/28/01 16:33:15, 0, 0, 1
09/28/01 16:33:30, 1, 0, 1
09/28/01 16:33:45, 1, 1, 1
09/28/01 16:34:00, 1, 1, 1
09/28/01 16:34:15, 1, 1, 1
09/28/01 16:34:30, 0, 1, 1
09/28/01 16:34:45, 0, 0, 1
09/28/01 16:35:00, 0, 0, 1

```